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APPLICATION NO.	ATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/621,651 07/16/2003		Chenggang Xie	CML01122SS 1041			
23330	7590 01/11/2005		EXAMINER			
MOTORO	LA, INC.	MARTIN, ANGELA J				
Corporate L 3102 North	aw Department - #56-238 56th Street	ART UNIT	PAPER NUMBER			
Phoenix, A	Z 85018	1745				
		DATE MAILED: 01/11/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application N	lo.	Applicant(s)				
Office Action Summary		10/621,651		XIE ET AL.					
		Examiner		Art Unit					
	·		Angela J. Mar	tin	1745				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status		•							
1) 又	Responsive to communication(s) file	ed on <i>16 Ju</i>	ly 2003.						
	This action is FINAL . 2b) This action is non-final.								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.									
Applicati	on Papers								
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		_	Interview Summary (Paper No(s)/Mail Dat Notice of Informal Pa Other:	te	O-152)			

Application/Control Number: 10/621,651

Art Unit: 1745

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Bostaph et al., WO 02/49132 A2.

Rejection of claims 1-6 and 16-17 drawn to a device for mixing diluted fuel in a fuel cell; claims 7-15 drawn to a method for mixing diluted fuel in a fuel cell device.

Bostaph et al., teach a device for mixing diluted fuel in a fuel cell, the device comprising a fuel mixing chamber (abstract), an undiluted fuel inlet line for delivering substantially undiluted fuel into the mixing chamber (p. 15, lines 10-16); a bubbling line for bubbling a gas into the mixing chamber, wherein the bubbling line comprises a return air/water line from at least one of an anode and cathode (p. 16, lines 2-6); and a diluted fuel outlet line for transporting diluted fuel to an external fuel cell stack (p. 10, lines 4-17). It teaches the undiluted fuel comprises MeOH (p. 8, lines 26-27 and p. 9, lines 1-3). It also teaches the diluted fuel comprises at least partially diluted aqueous MeOH (p. 3, lines 10-12). It teaches a sensor for determining fuel concentration in mixing chamber (p. 9, lines 18-27). In addition, it teaches the sensor is responsive to MeOH concentration (abstract). It teaches a DMFC (direct methanol fuel cell) (p. 1, lines 7-10). It also teaches a gas permeable membrane (p. 11, lines 8-20). It teaches a

method for mixing diluted fuel in a fuel cell device (Fig. 3; p. 15, lines 10-27 and p. 16, lines 1-10).

Thus, the claims are anticipated.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272-1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AJM .